WHAT IS CLAIMED IS:

1. A drum supporting blades, the drum being generally in the form of a body of revolution about a longitudinal axis and being intended in particular to form a rotor, the drum being made of a metal alloy and extending between an upstream end and a downstream end along a curved profile that can be circumscribed in an annular envelope extending around said longitudinal axis, said profile extending radially around a surface of revolution presenting a generatrix line, said downstream end being provided with a stiffener, wherein said stiffener is provided with at least one composite assembly mounted on said downstream end, said composite assembly comprising fibers and a polymer matrix.

2. A drum according to claim 1, comprising a first portion made as a single piece of metal and a second portion forming said stiffener.

3. A drum according to claim 1, wherein said downstream end defines an annular housing coaxial about said longitudinal axis, said housing being radially open towards the outside, and wherein said composite assembly is annular and wound around said downstream end, being positioned in said housing.

4. A drum according to claim 1, wherein said downstream end forms a series of axial protrusions, and wherein said stiffener is formed by at least one wound composite assembly in the form of a sleeve mounted on one of said protrusions.

5. A drum according to claim 1, wherein said stiffener is off-centered relative to said generatrix line.

6. A drum according to claim 5, wherein said stiffener is off-centered radially outwards relative to said generatrix line.

7. A drum according to claim 1, wherein said composite assembly is formed by wound long carbon fibers received in a matrix of thermosetting resin.

8. A drum according to claim 7, wherein said thermosetting resin is of the epoxy type.

9. An axial centrifugal compressor comprising, at its rotor, a drum according to claim 1 and having moving blades fixed thereon.

10. A combustion turboshaft engine, in particular a turbojet engine, including a compressor in accordance with claim 9.